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O Journals & Magazines Conference Proceedings Standards	database Hjelsvold, R. Midtstraum, R. Sandsta, O. Div. of Comput. Syst. & Telematics, Norwegian Inst. of Technol., Trondheim;	
Search	This paper appears in: Multi-Media Database Management Systems, 1995. Proceedings., International Workshop on	
O- By Author O- Basic O- Advanced	08/28/199508/30/1995, 28-30 Aug 1995 Location: Blue Mountain Lake, NY_, USA On page(s): 90-98	
Member Services Join IEEE Establish IEEE Web Account	28-30 Aug 1995 References Cited: 15 INSPEC Accession Number: 5074279	
O- Access the	Abstract: VideoSTAR (Video STorage And Retrieval) is an experimental	

video database system that gives support for sharing and reuse of video and meta-data. We discuss the need for a user to control the degree of meta-data sharing when searching and browsing a shared video database and we propose a way of organising meta-data to allow such functionality. This paper also presents a video query algebra utilizing the way meta-data are organised that allows the user to formulate temporal queries on the video contents. In the last part of the paper we discuss the use of the proposed concepts and the query algebra for video querying and browsing. We present a prototype video query tool implemented on top of the VideoSTAR framework that allows users to formulate quite complex queries based on the meta-data available in the VideoSTAR repositories

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1 A data-driven model for a subset of logic programming

99%

94%

▲ Lubomir Bic , Craig Lee

ACM Transactions on Programming Languages and Systems (TOPLAS) October 1987

Volume 9 Issue 4

There is a direct correspondence between semantic networks and a subset of logic programs, restricted only to binary predicates. The advantage of the latter is that it can describe not only the nodes and arcs comprising a semantic net, but also the data-retrieval operations applied to such nets. The main objective of this paper is to present a data-driven model of computation that permits this subset of logic programs to be executed on a highly parallel computer architecture. We demonstrate ...

Transformation of data traversals and operations in application d programs to account for semantic changes of databases Stanley Y. W. Su, Herman Lam, Der Her Lo ACM Transactions on Database Systems (TODS) June 1981 Volume 6 Issue 2

This paper addresses the problem of application program conversion to account for changes in database semantics that result in changes in the schema and database contents. With the observation that the existing data models can be viewed as



alternative ways of modeling the same database semantics, a methodology of application program analysis and conversion based on an existing-DBMS-model-and schema-independent representation of both the database and programs is presented. In this methodolog ...

3 Query processing techniques in the summary-table-by-example

88%

database query language

Gultekin Özsoyo?lu , Victor Matos , Meral Özsoyo?lu ACM Transactions on Database Systems (TODS) December 1989 Volume 14 Issue 4

Summary-Table-by-Example (STBE) is a graphical language suitable for statistical database applications. STBE queries have a hierarchical subquery structure and manipulate summary tables and relations with set-valued attributes. The hierarchical arrangement of STBE queries naturally implies a tuple-by-tuple subquery evaluation strategy (similar to the nested loops join implementation technique) which may not be the best query processing strategy. In this paper we discuss the query ...

4 The Fifth Generation grail: A survey of related research

83%

A Lubomir Bic

Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge January 1984

Five areas of computer science - logic programming, database technology, knowledge representation using semantic nets, natural language processing, and dataflow architectures - are related to the goals of the Fifth Generation Computer Project. In this paper we present a number of recent research projects found in the intersection of two or more of the above areas. It is argued that, while much of the research began before the initiation of the Japanese national project, the explicit call fo ...

5 Query evaluation techniques for large databases

83%

d Goetz Graefe

ACM Computing Surveys (CSUR) June 1993 Volume 25 Issue 2

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

6 RUBRIC: an environment for full text information retrieval

82%

Richard M. Tong, Victor N. Askman, James F. Cunningham, Carl J. Tollander

Proceedings of the 8th annual international ACM SIGIR conference on Research and development in information retrieval June 1985

Conceptual representation for knowledge bases and <<</p>

80%

intelligent >> information retrieval systems
G. P. Zarri

Proceedings of the 11th annual international ACM SIGIR conference on Research and development in information retrieval May 1988

This paper describes the "conceptual" Knowledge Representation Language (KRL) proper to an environment for the construction and use of large Knowledge Bases and/or "Intelligent" Information Retrieval Systems. In the KRL, we separate the treatment of the episodic memory (extensional, assertional data = "Snoopy is Charlie Brown's beagle") from the treatment of the semantic memory (intensional, terminological data = A beagle is a sort of hound / a hound is a ...

8 Query optimization I: Access paths in the "Abe" statistical query 80% diffacility

Anthony Klug

Proceedings of the 1982 ACM SIGMOD international conference on Management of data June 1982

An increasingly important part of information processing today involves the taking of counts, sums, averages, and other statistical or aggregate quantities. The "Abe" query language is designed to make formulation of complicated aggregations simple. Access path selection in Abe finds efficient ways to execute these complicated queries. Access paths for Abe queries perform "aggregate joins", that is, they compute aggregate quantities at the same time as they join subqueries with parent queries. T ...

9 Knowledge based document classification supporting integrated

80%

document handling

Helmut Eirund , Klaus Kreplin

Conference Sponsored by ACM SIGOIS and IEEECS TC-OA on Office information systems April 1988

An experimental office system currently being developed at Olivetti research integrates two major requirements of office work: content based document retrieval and mail distribution. In this system documents are described and classified by their semantic structure



that provides access to abstract concepts contained in the document. The derivation of the semantic structure of a document supports both an efficient retrieval by content and an intelligent mail filtering through document semanti ...

10 Computational properties of metaquerying problems
F. Angiulli, R. Ben-Eliyahu-Zohary, L. Palopoli, G. B. Ianni
Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART
symposium on Principles of database systems May 2000
Metaquerying is a datamining technology by which hidden
dependencies among several database relations can be discovered.
This tool has already been successfully applied to several
real-world applications. Recent papers provide only very
preliminary results about the complexity of metaquerying. In this
paper we define several variants of metaquerying that encompass,
as far as we know, all variants defined in the literature. We study
both the combined complexity and the data complexity of the ...

11 Interactive textbook and interactive Venn diagram: natural and 80% intuitive interfaces on augmented desk system Hideki Koike, Yoichi Sato, Yoshinori Kobayashi, Hiroaki Tobita, Motoki Kobayashi
Proceedings of the CHI 2000 conference on Human factors in computing systems April 2000

This paper describes two interface prototypes which we have developed on our augmented desk interface system, EnhancedDesk. The first application is Interactive Textbook, which is aimed at providing an effective learning environment. When a student opens a page which describes experiments or simulations, Interactive Textbook automatically retrieves digital contents from its database and projects them onto the desk. Interactive Textbook also allows the student hands-on ability to interact with ...

12 Conceptual learning in database design

Yannis E. Ionnidis , Tomas Saulys , Andrew J. Whitsitt ACM Transactions on Information Systems (TOIS) July 1992 Volume 10 Issue 3

This paper examines the idea of incorporating machine learning algorithms into a database system for monitoring its stream of incoming queries and generating hierarchies with the most

80%



important concepts expressed in those queries. The goal is for these hierarchies to provide valuable input to the database administrator for dynamically modifying the physical and external schemas of a database for improved system performance and user productivity. The criteria for choosing the appropriate lea ...

13 Another nail to the coffin of faceted controlled-vocabulary

80%

d component classification and retrieval
Hafedh Mili, Estelle Ah-Ki, Robert Godin, Hamid Mcheick
ACM SIGSOFT Software Engineering Notes, Proceedings of the 1997
symposium on Software reusability May 1997
Volume 22 Issue 3

14 Logical foundations of object-oriented and frame-based

80%

1 languages

Michael Kifer , Georg Lausen , James Wu Journal of the ACM (JACM) July 1995 Volume 42 Issue 4

We propose a novel formalism, called Frame Logic (abbr., F-logic), that accounts in a clean and declarative fashion for most of the structural aspects of object-oriented and frame-based languages. These features include object identity, complex objects, inheritance, polymorphic types, query methods, encapsulation, and others. In a sense, F-logic stands in the same relationship to the object-oriented paradigm as classical predicate calculus stands to relational programming. ...

77%

Dennis Fogg

Proceedings of the 1984 ACM SIGMOD international conference on Management of data June 1984

The Living In a Database system (LID) is a user-friendly interface to an entity-relationship database Its underlying ideas are similar to Cattell's PDB [Cattell 80], but its presentation is significantly different LID uses a bit-mapped graphics terminal with mouse pointer to create an attractive interaction environment. Experience from the implementation suggests that dynamic graphic displays --- those which have graphic symbols that change as the data they present change --- are an important fe ...

16 An intelligent approach to handling imperfect information in concept-based natural language queries Vesper Owei

77%



ACM Transactions on Information Systems (TOIS) July 2002 Volume 20 Issue 3

Missing information, imprecision, inconsistency, vagueness, uncertainty, and ignorance abound in information systems. Such imperfection is a fact of life in database systems. Although these problems are widely studied in relational database systems, this is not the case in conceptual query systems. And yet, concept-based query languages have been proposed and some are already commercial products. It is therefore imperative to study these problems in concept-based query languages, with a view to ...

17 On a model of indexability and its bounds for range queries

Joseph M. Hellerstein, Elias Koutsoupias, Daniel P. Miranker,
Christos H. Papadimitriou, Vasilis Samoladas
Journal of the ACM (JACM) January 2002
Volume 49 Issue 1

77%

We develop a theoretical framework to characterize the hardness of indexing data sets on block-access memory devices like hard disks. We define an indexing workload by a data set and a set of potential queries. For a workload, we can construct an indexing scheme, which is a collection of fixed-sized subsets of the data. We identify two measures of efficiency for an indexing scheme on a workload: storage redundancy, r (how many times each item in the data set is stored), and access over ...

18 Query processing in a multimedia document system
Elisa Bertino , Fausto Rabbiti , Simon Gibbs
ACM Transactions on Information Systems (TOIS) January 1988

77%

Volume 6 Issue 1
Query processing in a multimedia document system is described.
Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can

19 The complexity of acyclic conjunctive queries

do Journal of the ACM (JACM) May 2001

Volume 48 Issue 3

77%

20 Termination proofs for logic programs with tabling

Sofie Verbaeten, Danny De Schreye, Konstantinos Sagonas ACM Transactions on Computational Logic (TOCL) January 2001

coexist. Query processing and the different strategies ...

77%



Tabled evaluation is receiving increasing attention in the logic programming community. It avoids many of the shortcomings of SLD execution and provides a more flexible and often considerably more efficient execution mechanism for logic programs. In particular, tabled execution terminates more often than execution based on SLD-resolution. In this article, we introduce two notions of universal termination of logic programming with tabling: quasi-termination and (the stronger notion of) LG-te ...

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21 Extending understanding of federal statistics in tables
Gary Marchionini, Carol Hert, Liz Liddy, Ben Shneiderman
Proceedings on the conference on universal usability, 2000 on
Conference on Universal Usability November 2000

77%

This paper describes progress toward improving user interfaces for US Federal government statistics that are presented in tables. Based on studies of user behaviors and needs related to statistical tables, we describe interfaces to assist diverse users with a range of statistical literacy to explore, find, understand, and use US Federal government statistics.

22 Towards OLAP security design — survey and research issues

77%

Torsten Priebe , Günther Pernul Proceedings of the third ACM international workshop on Data warehousing and OLAP November 2000

23 Generating presentation constraints from rhetorical structure

- Lloyd Rutledge, Brian Bailey, Jacco van Ossenbruggen, Lynda Hardman, Joost Geurts Proceedings of the eleventh ACM on Hypertext and hypermedia May 2000
- **24** Programming for observability support in a parallel programming 77% environment

Francesco Gregoretti , Zary Segall Proceedings of the 1986 ACM fourteenth annual conference on Computer science February 1986

25 A layered architecture for querying dynamic Web content
Hasan Davulcu, Juliana Freire, Michael Kifer, I. V. Ramakrishnan
ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD
international conference on Management of data June 1999
Volume 28 Issue 2

77%

The design of webbases, database systems for supporting Web-based applications, is currently an active area of research. In this paper, we propose a 3-year architecture for designing and implementing webbases for querying dynamic Web content(i.e., data that can only be extracted by filling out multiple forms). The lowest layer, virtual physical layer, provides navigation independence by shielding the user from the complexities associated wi ...

26 ESSQL: an enhanced semi-structured query language for 77% composite document retrievals Reo-Jo Yamashita , Tetsuro Ito , Hsiu-Hsen Yao Proceedings of the 16th annual international conference on Computer documentation September 1998

27 Catching the boat with Strudel: experiences with a Web-site 77% management system

Mary Fernández , Daniela Florescu , Jaewoo Kang , Alon Levy , Dan Suciu

ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data June 1998 Volume 27 Issue 2

The Strudel system applies concepts from database management systems to the process of building Web sites. Strudel's key idea is separating the management of the site's data, the creation and management of the site's structure, and the visual presentation of the site's pages. First, the site builder creates a uniform model of all data available at the site. Second, the builder uses this model to



declaratively define the Web site's structure by applying a " site-definition query" ...

28 A C++ data model supporting reachability analysis and dead code detection

77%

Yih-Farn R. Chen , Emden R. Gansner , Eleftherios Koutsofios ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering November 1997

Volume 22 Issue 6

29 Mediator languages—a proposal for a standard: report of 77% an I3/POB working group held at the University of Maryland, April 12 and 13, 1996
Peter Buneman , Louiqa Raschid , Jeffrey Ullman
ACM SIGMOD Record March 1997
Volume 26 Issue 1

30 Prototyping a project master database for software engineering 77% environments

Maria H Penedo

ACM SIGOIS Bulletin , Proceedings of the second ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments January 1987 Volume 22 Issue 1

Software Engineering Environments (SEE) have been determined as good means of increasing software productivity by shifting projects from the paper world into the automated world. An environment database has been identified as the core of any automated Software Engineering Environment. It should provide the means for accessing, storing and relating all the project's products, the means for automating the process by which these components are entered in this library, modified ...

31 Manufacturing documentation in the virtual warehouse 77%

Tom Banfalvi , Peter Sturgeon , Christina L. K. Walsh
Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle October 1996

32 Tail recursion elimination in deductive databases

77%

d Kenneth A. Ross

ACM Transactions on Database Systems (TODS) June 1996



Volume 21 Issue 2

We consider an optimization technique for deductive and relational databases. The optimization technique is an extension of the magic templates rewriting, and it can improve the performance of query evaluation by not materializing the extension of intermediate views. Standard relational techniques, such as unfolding embedded view definitions, do not apply to recursively defined views, and so alternative techniques are necessary. We demonstrate the correctness of our rewriting. We define a c ...

33 Visualizing and querying software structures

77%

Mariano Consens, Alberto Mendelzon, Arthur Ryman Proceedings of the 14th international conference on Software engineering June 1992

34 The human genome project and informatics

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Maren A. Frenkel
Communications of the ACM November 1991
Volume 34 Issue 11

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